

# COMPUTER PROGRAMMING LANGUAGE STATEMENT BUILDING AND INFORMATION TOOL

## ABSTRACT

5       An intelligent real time tool to assist a computer programmer during the  
writing and/or maintenance of a computer program. The tool generates assist  
windows that contain program related information that the programmer can use  
to construct a programming language statement and/or to obtain real time  
information about a programming language statement. An assist window can be  
10       automatically displayed as determined by the tool itself, and/or manually  
displayed on demand in response to a user input command. An assist window  
displays two general categories of information including but not limited to  
selection menu information based on a partial compilation of all programming  
language statements, and informational displays based on a partial compilation  
15       and a reverse parse of an immediate programming language statement. The  
statement generating tool assist windows are non-intrusive to programmer input  
and can be ignored by the programmer by merely continuing to type an  
immediate programming language statement without interacting with the assist  
windows that are proximate the programming language statement being  
20       constructed by the programmer.